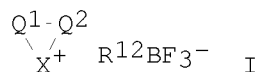


L26 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:1125512 CAPLUS
DN 143:405908
TI Preparation of pyrrolidinium, pyridinium, and imidazolium
perfluoroalkyltrifluoroborates as ionic liquids.
IN Ignatyev, Nikolai; Welz-Biermann, Urs; Bissky, German; Willner, Helge;
Kucheryna, Andriy
PA Merck Patent GmbH, Germany
SO Ger. Offen., 20 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 102004017026	A1	20051020	DE 2004-102004017026	20040402
	AU 2005238128	A1	20051110	AU 2005-238128	20050103
	CA 2561813	A1	20051110	CA 2005-2561813	20050103
	WO 2005105815	A1	20051110	WO 2005-EP3	20050103
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1730157	A1	20061213	EP 2005-700668	20050103
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	CN 1938322	A	20070328	CN 2005-80010533	20050103
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	US 2007213538	A1	20070913	US 2006-594966	20060929 <--
PRAI	DE 2004-102004017026	A	20040402		
	WO 2005-EP3	W	20050103		
OS	MARPAT 143:405908				
GI					



AB Title compds. [I; X = NR1, N(R1)2, Q1Q2CHR3CHR4CHR5CHR6,
CR2:CR3CR4:CR5CR6, CR7:CR8NR10CR9; R1 = alkyl, CH2R11; R2-R6 = alkyl;
R7-R9 = H, alkyl, aryl; R10 = alkyl, CH2R11; R11 = (per)fluoroalkyl; R12 =
perfluoroalkyl, perfluorophenyl, etc.; with specific exceptions], were
prepared Thus, a mixture of KF and B(OMe)3 in dimethoxyethane was treated
dropwise with (C2F5)2P:NSiMe3 (preparation given) followed by heating at
60° for 1 h. Solvent was distilled off and the oily residue in
dimethoxyethane was treated with HF under cooling; after stirring for 3 h
excess HF was removed and the residue in H2O was treated with
1-methyl-3-butylimidazolium chloride. The lower phase was separated to a
mixture containing 60 mol% 1-methyl-3-butylimidazolium
pentafluoroethyltrifluoroborate.

